Detention Pond Maintenance

1. Pollution Prevention Plans

Often the easiest way to maintain a detention pond is to develop and implement a pollution prevention plan at your establishment. A pollution prevention plan drastically reduces the amount of pollution entering your detention pond; thus reducing the amount of time and money necessary to maintain the pond.

Important aspects of a pollution prevention plan:

- Ory sweep parking lots on a regular basis. This prevents solids from entering the pond.
- Keep kitty litter, sawdust or cornmeal handy to absorb small spills. Properly dispose of the collected material.
- Materials that could pollute stormwater should be stored inside a protected, roofed building.
- Educate employees to be aware of potential stormwater pollution and how to report potential problems.

2. Maintaining the Pond

- ♦ Conduct routine inspections.
- Remove any trash that may have accumulated.
- Make sure that the pond's banks and bottom are stable. There should be no active erosion in the pond.
- Remove excess sediment, trash or other debris that is blocking discharge pipes or the emergency spillway.
- Are Remove and properly dispose of any pollutants such as oil that may have been trapped in the pond.
- Excessive vegetation such as willows or other large trees and shrubs should be removed unless they serve some part of your treatment plan.



3. Sand Filter Maintenance

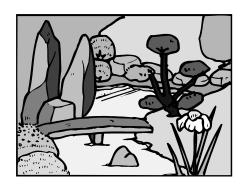
Sand filters are designed to remove and trap pollutants from stormwater. In order to be effective, the following procedures must be followed:

- ♦ Routinely inspect the sand filter.
- Keep vegetation growth on the sand to a minimum by hand removing sprouting vegetation.
- ♦ Rake the upper layer of sand on a regular basis to loosen the sand and provide

- ♦ Flush the sand filter perforated pipe several times yearly.
- Remove any oil, grease or other pollutant visible on the sand and dispose of properly.
- Replace the sand when it becomes clogged and ineffective.

4. Additional Detention Pond Hints

- Detention ponds can be designed and constructed to be aesthetically pleasing. Ponds can be vegetated and irregularly shaped with landscaping around the edges.
- ♦ All ponds can be made to be both functional and attractive. Many colorful and unusual aquatic plants can be used along the edges of a wet or partially wet pond. City ordinance allows a constructed wetland to be used to improve water quality in lieu of a detention pond or sand filter.
- Do not use pesticides, herbicides or fertilizers in your pond. These products will leach from the pond and pollute our streams and river.
- Make sure that your pond is draining properly. Detention ponds are designed to release stormwater slowly not hold the water permanently. Improperly maintained ponds can harbor breeding areas for mosquitoes and reduce the storage volume of the pond.
- Do not place yard waste such as leaves, grass





A permanent maintenance agreement for stormwater detention/retention facilities will be required, including those components required for water quality control. Maintenance will be the responsibility of the property owner on which the facility is located and will be recorded as such on the plat with the appropriate notation on the particular lot unless that responsibility has been legally transferred to another person or entity by a properly recorded legal agreement.

The registered professional engineer who designs the facility will develop minimum maintenance requirements of the water quality for such facility to ensure that the facility is kept functional. The maintenance agreement will specify minimum maintenance requirements and intervals to be performed by the property owner.

The maintenance agreement will also grant permission to the City to enter the subject property and to inspect the stormwater detention/retention facilities as deemed necessary. If the facility is not being maintained, the Public Works Director or his designee will notify the property owner to repair/maintain the facility within a reasonable period of time. If the property owner fails to repair/maintain the facility within the allotted time, the Public Works Director shall authorize the required maintenance to

Stormwater Pollution Prevention **Clean Water: Our Only Choice**

Cookeville has two drainage systems— the sanitary sewers and the storm drains. The storm drain system was designed to prevent flooding by carrying excess rain water away from streets, homes and businesses. However, as development occurs, the amount of impervious surface such as parking lots, roof tops and roads increases. Impervious surfaces prevent storm water from percolating into the ground. Instead they increase the amount of water leaving an area. This often leads to increased flooding downstream.

Another problem caused by impervious surfaces is that any pollutant that is placed on these surfaces stavs there until it is "washed" into our streams and sinkholes during the next rain storm. The pollutants include: oil, other automobile fluids, paint and construction debris, yard and pet wastes, pesticides and litter. The mixing of rain water and these pollutants causes stormwater pollution.

To help reduce stormwater pollution, Cookeville requires that new developments maintain a zero increase in the discharge rate of stormwater runoff leaving their property.

The most common approach to meeting these requirements is the installation of a detention pond with a sand filter and oil/floatables skimmer.

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This pamphlet tells you haw to properly maintain your detention pond. These Best Manage-

Spill Response

Cookeville Fire Department 911 Tennessee Division of Water Pollution Control (931) 432-4015

Recycling and Household Hazardous Waste Disposal

Putnam County Recycling Center (931) 528-3884

To Report Illegal Dumping

Cookeville Codes Department (931) 520-5233

This brochure is one of a series of pamphlets describing storm drain protection measures. Other pamphlets include:

Heavy Equipment & Earth-Moving Activities

Home Repair & Remodeling

Landscaping, Gardening & Pest Control

Food Service Industry

Automotive Maintenance & Car Care

This pamphlet was produced by Cookeville Stormwater Management. For more information please call (931) 520-5249.

For more information please visit our website

http://www.cookeville-tn.org/publicworks/ stormwater%20management.htm



45 E. Broad Street Cookeville, TN 38503 City of Cookeville – Stormwater Management

Stormwater Best Storm **Management Practices (BMPs)**





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Brochure 5

Cookeville Businesses Neighborhoods with Detention Ponds